

OPERATING MANUAL (ANSI/CSA)

ARTICULATING BOOMS

MODELS SJ30AJE SJ30ARJE

196403AIA October 2021

SKYJACK

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3.7-10 To Operate Using Emergency Power Switch at Base Control Console

This is a momentary-type switch. This switch allows all functions except the drive functions to operate in the event of an emergency or an electrical system failure. Refer to Section 2.6 for the emergency lowering procedure.

NOTEThe emergency power unit has two-minute duty cycle.

CAUTION

3.7-11 To Activate Platform Control Console

1. On both the left and right sides of the MEWP, plug in main power connectors.
2. On base control console, turn base/off/platform key switch to " " platform position.
3. On base control console, pull out " " emergency stop button.

WARNING

WARNING

DO NOT

4. Enter platform.
5. Attach body harness lanyards of each occupant to fall protection anchorage points. Rated for one (1) person per anchorage.
6. On platform control console, pull out " " emergency stop button.

WARNING

DO NOT 3.7-12 Secondary Guarding Electrical (SGE)

1. When pressure is applied to the sensor bar for less than 1 second, the audible/visual alarm will activate while the bar is being pressed, interrupting all functions. The audible/visual alarm will turn off after the sensor bar is released, and functions will resume.
2. When pressure is applied to the sensor bar for more than 1 second, the audible/visual alarm will activate. All functions will be halted and the reset button will illuminate.
3. After removing pressure from the bar, press the reset button to shut off the audible/visual alarm and resume all functions.

3.7-13 To Drive Forward or Reverse

NOTE

The general direction of the turret and boom relative to the chassis indicates the forward direction of motion.

1. Depress and hold footswitch.
2. On platform control console, move and hold drive/steer controller in this direction " " to drive forward or " " to drive backward.
3. Release controller handle to stop.

CAUTION

CAUTION

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CAUTION

3.7-14 To Steer

1. Depress and hold footswitch.

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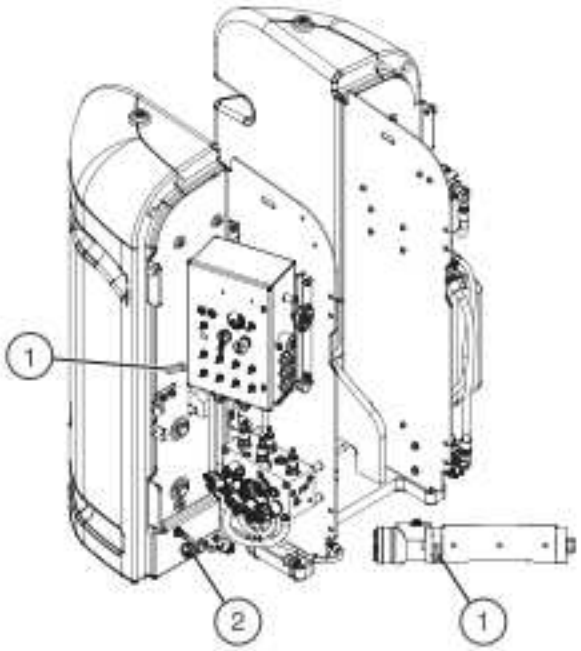
Table 4.2a Specifications and Features

MODEL		SJ30AJE	SJ30ARJE
Platform Size	Total platform length (outside)	46 in. (117 cm)	
	Total platform depth (outside)	30 in. (76 cm)	
Height	Working	36 ft. 3 in. (11.1 m)	36 ft. 1 in. (11.0 m)
	Platform elevated	29 ft. 8 in. (9.04 m)	29 ft. 6 in. (9.00 m)
	Drive	Driveable at all heights	
	Stowed	6 ft. 6 in. (1.98 m)	
Overall length		18 ft. 2 in. (5.64 m)	18 ft. 1 in. (5.51 m)
Overall width		3 ft. 11 in. (1.19 m)	
Weight		14580 lb. (6613 kg)	
Platform rotation		180 degrees	
Jib rotation		N/A	180 degrees
Horizontal reach		16 ft. 9 in. (5.11 m)	16 ft. 8.6 in. (5.10 m)
Horizontal reach @ maximum height		20 ft. 7 in. (6.27 m)	20 ft. 6.6 in. (6.26 m)
Wheelbase		5 ft. 5 in. (1.65 m)	
Turret rotation		352 degrees continous	
Turret tailswing		0 in. (0 m)	
Gradeability		35%	
Ground clearance (chassis)		4.0 in. (0.10 m)	
Turning Radius	Inside (left - right)	5 ft. 0.5 in. - 5 ft. 5 in. (1.54 m - 1.65 m)	
	Outside (left - right)	10 ft. 6 in. - 10 ft. 11 in. (3.20 m - 3.33 m)	
Battery Voltage		48V DC	
Battery Type		Lead/Acid	
Operating Times	Main boom up	20 - 24 seconds (approx.)	
	Main boom down	18 - 20 seconds (approx.)	
	Riser boom up	14 - 18 seconds (approx.)	
	Riser boom down	22 - 26 seconds (approx.)	
	Fly boom extend	17 - 19 seconds (approx.)	
	Fly boom retract	12 - 16 seconds (approx.)	
	Jib up	18 - 20 seconds (approx.)	
	Jib down	12 - 16 seconds (approx.)	
	Jib swing	14 - 16 seconds (approx.)	
	Turret rotate	70 - 90 seconds (approx.)	
	Platform rotate	7-10 seconds (approx.)	
Driving Speeds	Drive speed (maximum-stowed)	3.0 mph (4.8 km/h)	
	Drive speed (maximum-elevated)	0.4 mph (0.6 km/h)	

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Control Compartment



No.	Label Pictorial	Description
1		**Grease Points Maintenance** Refer to service and maintenance manual " " for lubricating MEWP.
2		**Warning - Do Not Alter** Do not alter or disable limit switches or other safety devices.

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2.5 Winching and Towing Procedure

This section provides the operator with the winching and towing procedure, which includes instructions on how to manually release the brakes.

WARNING

Ensure boom is in stowed position before winching or towing. Sudden motion could cause MEWP to become unstable. Death or serious injury could result.

WARNING

In emergency situations where MEWP functions are not available and lowering is impeded by an obstacle, utmost care must be taken to move MEWP far enough to clear obstacle. In such cases, operation must be extremely smooth with no sudden movements and must not exceed a speed of 2 in./sec (50 mm/sec).

WARNING

When pushing, winching or towing, do not exceed 2 mph (3.2 km/h).

WARNING

Do not winch or tow MEWP on grade steeper than 35%.

WARNING

Do not winch or tow MEWP onto a slope, or brake the towing vehicle rapidly. Do not pull MEWP down an incline towards a winch.

1. Before winching or towing MEWP, fully retract, lower and position boom over rear drive wheels in line with direction of travel.
2. Manually release brakes (refer to Section 2.5-1).
3. Remove wheel chocks or blocks, and then winch or tow MEWP to desired location.
4. Position MEWP on a firm and level surface.
5. Chock or block wheels to prevent MEWP from rolling.
6. Locate disengage cap (Figure 2-8 - item 1).
   a) Using a 7/16" (11mm) wrench, remove bolts.
   b) Remove disengage cap and rotate to outward position (refer to Figure 2-9).
   c) Reattach disengage cap and fasten bolts, using a 7/16" (11mm) wrench. Brake is now reengaged.

NOTE

Ensure o-ring remains seated.

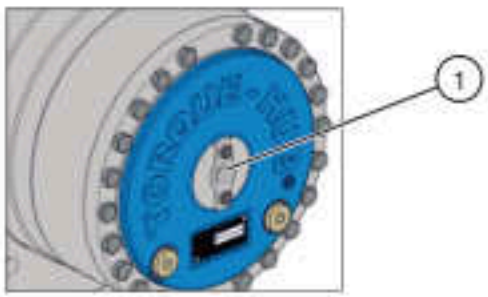


Figure 2-8. Disengage Cap

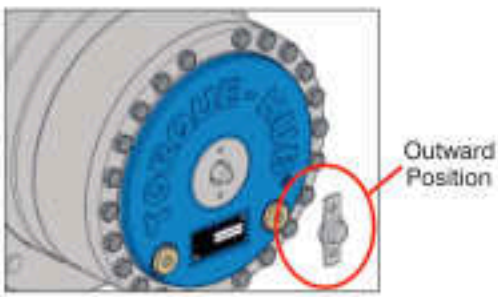


Figure 2-9. Disengage Cap - Outward Position

NOTE

Brakes automatically apply when platform controls are engaged.

WARNING

Brakes must be applied immediately after reaching desired location.

It is the responsibility of the operator to read, completely understand and follow all instructions and warnings contained in this operating manual and on the aerial platform.

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Safety Precautions

Know and understand the safety precautions before going on to next section.

WARNING

Failure to heed the following safety precautions could result in tip over, falling, crushing, or other hazards leading to death or serious injury.

- **KNOW** all national, state or territorial/provincial and local rules which apply to your MEWP and jobsite.
- **DISCONNECT** and lock out main power connector on either the left or right side of the MEWP when leaving the MEWP unattended to prevent unauthorized use.
- **WEAR** all the protective clothing and personal safety devices issued to you or called for by job conditions.
- **DO NOT** wear loose clothing, dangling neckties, scarves, rings, wristwatches or other jewelry while operating this MEWP.



- **AVOID** entanglement with ropes, cords or hoses.



- **AVOID** falling. Stay within the boundaries of the guardrails. Maintain firm footing on the platform floor at all times while working thereon.



- **ENSURE** all occupants wear personal fall protection equipment.
- **DO NOT** raise the MEWP or operate elevated in windy or gusty conditions that exceed the limits specified in Section 4, Table 4.5.



- **DO NOT** increase the lateral surface area of the platform. Increasing the area exposed to the wind will decrease MEWP stability. Avoid tenting.



- **DO NOT** elevate the MEWP if it is not on a firm, level surface.
- **DO NOT** drive elevated near depressions or holes of any type, loading docks, debris, drop-offs and surfaces that may affect the stability of the MEWP.



- **DO NOT** elevate or drive elevated on a slope. Elevated driving must be done on a firm, level surface.



- **If operation in areas with holes or drop-offs is absolutely necessary,** elevated driving shall not be allowed. Position the MEWP horizontally only with the platform fully lowered. After ensuring that all 4 wheels or outriggers (if equipped) have contact with a firm, level surface, the MEWP can be elevated. After elevation, the drive function must not be activated.



- **DO NOT** drive elevated on a soft or uneven surface.



- **DO NOT** ascend or descend a grade steeper than 35%. Boom elevated driving must only be done on firm, level surfaces.



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